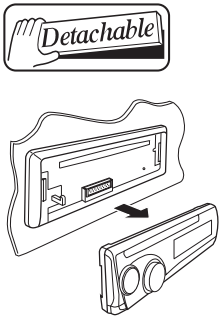
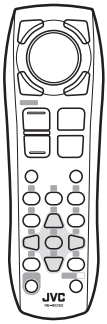
ENGLISH

DVD/CD RECEIVER

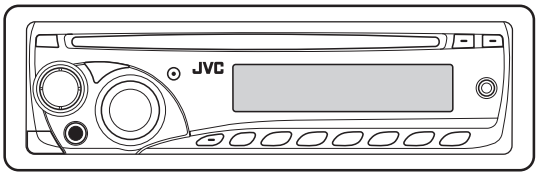
KD-DV4402/KD-DV4401





WMA MP3 WAV DOLBY DIGITAL dts Digital Out

DVD VIDEO COMPACT disc DIGITAL VIDEO DivX DivX ULTRA R·D·S



For canceling the display demonstration, see page 5.

For installation and connections, refer to the separate manual.

INSTRUCTIONS

BEDIENUNGSANLEITUNG

GET0514-001A
[E]

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Thank you for purchasing a JVC product.
Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION	ATTENTION	AVISO	VARNING	注意	CAUTION
VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	ここを開くと可視及び/または不可視のクラス1Mレーザー放射が出ます。光学装置で直接見ないでください。 (JPN)	VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG)

[European Union only]

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

For safety...

- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

WARNINGS:
(To prevent accidents and damage)

- **DO NOT install any unit or wire any cable in a location where;**
  - **it may obstruct the steering wheel and gearshift lever operations.**
  - **it may obstruct the operation of safety devices such as air bags.**
  - **it may obstruct visibility.**
- **DO NOT operate the unit while driving.**
- **If you need to operate the unit while driving, be sure to look around carefully.**
- **The driver must not watch the monitor while driving.**
  If the parking brake is not engaged, "DRIVER MUST NOT WATCH THE MONITOR WHILE DRIVING." appears on the monitor, and no playback picture will be shown.
  - **This warning appears only when the parking brake lead is connected to the parking brake system built in the car (refer to the Installation/Connection Manual).**

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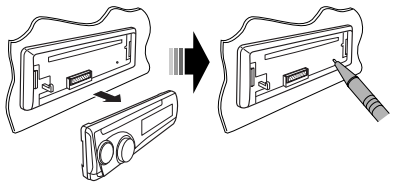
How to reset your unit



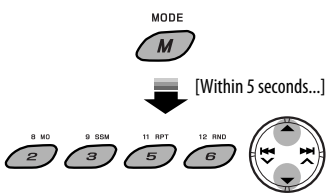
- *Your preset adjustments will also be erased.*

How to forcibly eject a disc

- *Be careful not to drop the disc when it ejects.*
- *If this does not work, reset your unit.*

How to use functions mode

If you press M MODE, the unit goes into functions mode, then the number buttons and ▲/▼ buttons work as different function buttons.



Caution on volume setting

Discs produce very little noise compared with other sources. Lower the volume before playing a disc to avoid damaging the speakers by the sudden increase of the output level.

Caution for DualDisc playback

The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

CONTENTS

INTRODUCTIONS

Playable disc type 4
Preparation 5

OPERATIONS

Basic operations
- Using the control panel 6
- Using the remote controller (RM-RK252) 7

Listening to the radio 10
Searching for FM RDS programme —PTY Search 11
Disc operations 13
- Operations using the control panel 14
- Operations using the remote controller (RM-RK252) 16

EXTERNAL DEVICES

Listening to the other external components 22

SETTINGS

Selecting a preset sound mode 22
General settings — PSM 24
Disc setup menu 26

REFERENCES

More about this unit 28
Maintenance 33
Troubleshooting 34
Specifications 36

For security reasons, a numbered ID card is provided with this unit, and the same ID number is imprinted on the unit's chassis. Keep the card in a safe place, as it will help the authorities to identify your unit if stolen.

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Playable disc type

Disc type	Recording format, file type, etc	Playable
DVD	DVD-Video (Region Code : 2) *1	✓OK
	DVD-Audio	✗NO
	DVD-ROM	
DVD Recordable/Rewritable (DVD-R/-RW *2, +R/+RW *3) • DVD Video: UDF bridge • DVD-VR • DivX/MPEG-1/MPEG-2/MP3/WMA/WAV: ISO 9660 level 1, level 2, Romeo, Joliet	DVD-Video	✓OK
	DVD-VR	
	DivX/MPEG1/MPEG2	
	MP3/WMA/WAV	
	AAC	✗NO
	JPEG/MPEG4	
	DVD+VR	
	DVD-RAM	
Dual Disc	DVD side	✓OK
	Non-DVD side	✗NO
CD/VCD	Audio CD/CD Text (CD-DA)/DTS-CD *4	✓OK
	VCD (Video CD)	
	SVCD (Super Video CD)	✗NO
	CD-ROM	
	CD-I (CD-I Ready)	
CD Recordable/Rewritable (CD-R/-RW) • ISO 9660 level 1, level 2, Romeo, Joliet	CD-DA	✓OK
	VCD (Video CD)	
	DivX/MPEG1/MPEG2	
	MP3/WMA/WAV	
	AAC	✗NO
	JPEG/MPEG4	

*1 *If you insert a DVD Video disc of an incorrect Region Code, "REGION CODE ERROR" appears on the monitor.*

*2 *DVD-R recorded in multi-border format is also playable (except for dual layer discs). DVD-RW dual layer discs are not playable.*

*3 *It is possible to play back finalized +R/+RW (Video format only) discs. +RW double layer discs are not playable.*

*4 *To reproduce DTS sound, use the DIGITAL OUT terminal (see also pages 27 and 31).*

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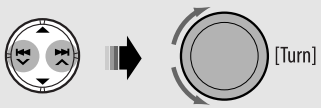
Preparation

Cancel the display demonstration and set the clock

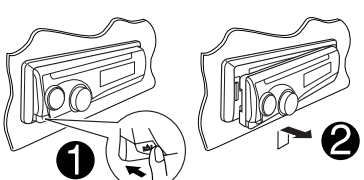
• See also page 24.

1	ATT ⏻/I	**Turn on the power.**
2	SEL [Hold]	**Enter the PSM settings.**
3	 [Turn]	**Cancel the display demonstrations** Select "DEMO," then "DEMO OFF." **Set the clock** Select "CLOCK HOUR," then adjust the hour. Select "CLOCK MIN" (minute), then adjust the minute. Select "24H/12H," then "24 HOUR" or "12 HOUR."
4	SEL	**Finish the procedure.**

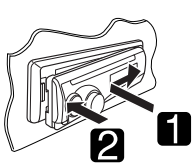
DISP	When the power is turned off: Check the current clock time When the power is turned on: Change the display information

Indication language:
In this manual, English indications are used for purposes of explanation. You can select the indication language on the monitor on the "LANGUAGE" setting (see page 26).

Detaching the control panel



Attaching the control panel



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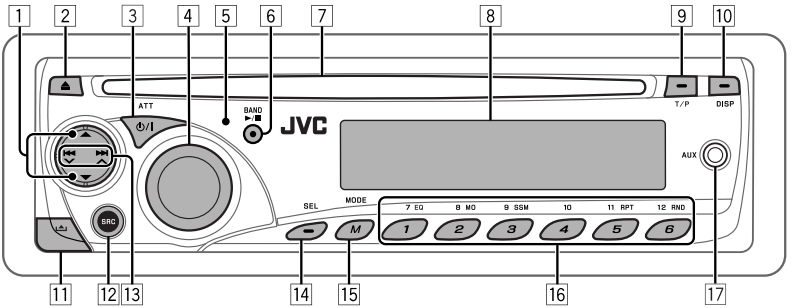
Basic operations

Using the control panel



1 **DISC**: Select title/program/playlist/folder.

2 Eject disc.

3 • Turn on the power.
  • Turn off the power [Hold].
  • Attenuate the sound (if the power is on).

4 Volume control [Turn].

5 Remote sensor

6 • **FM/AM**: Select the band.
  • **DISC**: Start/pause playback.

7 Loading slot

8 Display window

9 • Activate/deactivate TA Standby Reception.
  • Enter RDS programme search [HOLD].

10 Change the display information.

11 Detach the panel.

12 Select the source.
FM/AM → DISC* → AUX IN → LINE IN → (back to the beginning)

13 • **FM/AM**: Search for station.
  • **DISC**: Select chapter/track.

14 • Adjust the sound mode.
  • Enter the PSM settings [Hold].

15 Enter functions mode.
  • Press M MODE, then one of the following buttons (within 5 seconds)...
    EQ : Select the sound mode.
    MO : Turn on/off monaural reception.
    SSM : Automatic station presetting [Hold].
    RPT : Select repeat play.
    RND : Select random play.
    ▲/▼ : Skip 10 chapters/tracks.

16 • **FM/AM**: Select preset station.
  • **DISC**: Select chapter/title/program/folder/track.

17 AUX (auxiliary) input jack

* *You cannot select "DISC" as the playback source if there is no disc in the unit.*

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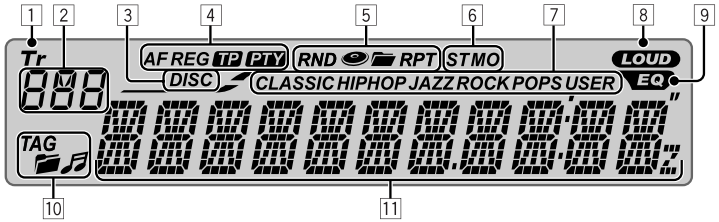
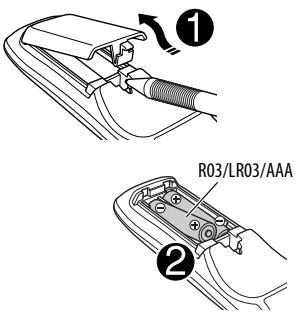
Display window



1 Tr (track) indicator
2 Source display / Track number / Folder number / Disc number / Title number / PBC indicator / Time countdown indicator
3 DISC indicator
4 RDS indicators—AF, REG, TP, PTY
5 Playback mode / item indicators— RND (random), (disc), (folder), RPT (repeat)
6 Tuner reception indicators—ST (stereo), MO (monaural)
7 Sound mode (c-EQ: custom equalizer) indicators —CLASSIC, HIP HOP, JAZZ, ROCK, POPS, USER
8 LOUD (loudness) indicator
9 EQ (equalizer) indicator
10 Disc information indicators— TAG (Tag information), (folder), (track/file)
11 Main display (Time, menu, playback information)

Using the remote controller (RM-RK252)

Installing the battery



Insert the batteries into the remote controller by matching the polarity (+ and –) correctly.

Caution:

Battery shall not be exposed to excessive heat such as sunshine, fire, or the like.

- If the effectiveness of the remote controller decreases, replace both batteries.

Before using the remote controller:

- Aim the remote controller directly at the remote sensor on the unit.
- DO NOT expose the remote sensor to bright light (direct sunlight or artificial lighting).

Continued on the next page

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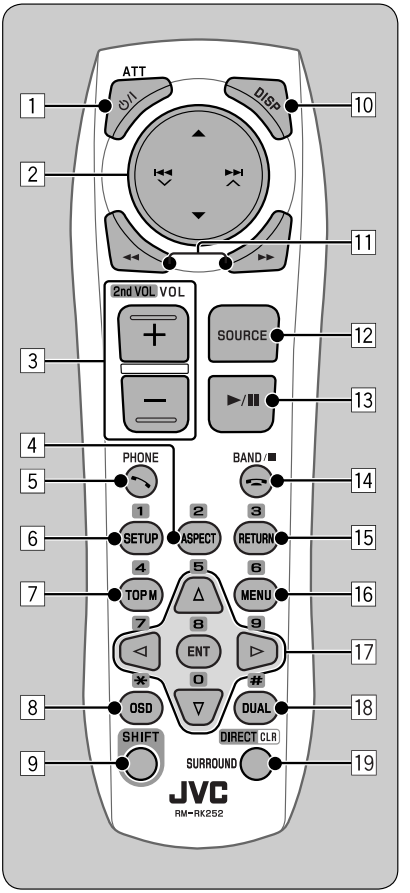

1 ⏻/I ATT **button**
- Turns the power on if pressed briefly or attenuates the sound when the power is on.
- Turns the power off if pressed and held.

2 ▲/▼ **buttons**
- **FM/AM**: Selects the preset stations.
- **DISC**:
  - DVD-Video: Selects the title.
  - DVD-VR: Selects the program/playlist.
  - DivX/MPEG Video/MP3/WMA/WAV: Selects the folders if included.

I◄◄ / ►►I buttons
- **FM/AM**:
  - Searches for stations automatically if pressed briefly.
  - Searches for stations manually if pressed and held.
- **DISC**:
  - Reverse skip/forward skip if pressed briefly.
  - Reverse search/forward search if pressed and held.

3 **VOL** (volume) **+ / – buttons**
- Adjusts the volume level.

2nd VOL (volume) **buttons**
- Not applicable for this unit.

4* **ASPECT button**
- Not applicable for this unit.

5 **PHONE button**
- Not applicable for this unit.

6* **SETUP button**
- Enters disc setup menu (during stop).

7* **TOP M** (menu) **button**
- DVD-Video/DivX: Shows the disc menu.
- DVD-VR: Shows the Original Program screen.
- VCD: Resumes PBC playback.

8* **OSD** (on-screen display) **button**
- Shows the on-screen bar.

9 **SHIFT button**
- Functions with other buttons.

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10 **DISP** (display) **button**
- Changes the display information.

11 **◄◄/►► buttons**
- DVD-Video/VCD: Slow motion playback (during pause).
- DivX/MPEG Video/MP3/WMA/WAV: Reverse search/forward search.

12 **SOURCE button**
- Selects the source.

13 ► (play) / ❚❚ (pause) **button**
- **DISC**: Starts/pauses playback.

14 (end call) **button**
- Not applicable for this unit.

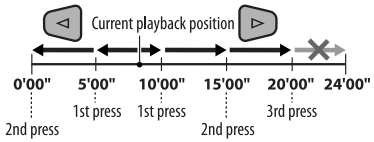
BAND/■ (stop) buttons
- **FM/AM**: Selects the bands.
- **DISC**: Stops playback.

15* **RETURN button**
- VCD: Returns to the PBC menu.

16* **MENU button**
- DVD-Video/DivX: Shows the disc menu.
- DVD-VR: Shows the Playlist screen.
- VCD: Resumes PBC playback.

17* △/▽ **buttons**
- DVD-Video: Makes selection/settings.

◁/▷ **buttons**
- DVD-Video: Makes selection/settings.
- DivX/MPEG Video: Skips back or forward by about five minutes.



ENT (enter) **button**
- Confirms selection.

18* **DUAL button**
- Not applicable for this unit.

19 **SURROUND button**
- Not applicable for this unit.

DIRECT button
- **DISC**: Enters direct search mode for chapter/title/program/playlist/folder/track when pressed with SHIFT button (see page 16 for details).

CLR (clear) **button**
- **DISC**: Erases the misentry when pressed with SHIFT button.

* *Functions as number buttons/∗ (asterisk)/# (hatch) when pressed with SHIFT button.*
– *FM/AM: Selects the preset stations (1 – 6).*
– *DISC: Enters chapter/title/program/playlist folder/track number after entering search mode by pressing SHIFT and DIRECT (see page 16 for details).*

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Listening to the radio

1		**Select "FM/AM."**
2		**Select the bands.** FM1 → FM2 → FM3 → AM
3		**Search for a station to listen—Auto Search.** Manual Search: Hold either one of the buttons until "M" flashes on the display, then press it repeatedly. • When receiving an FM stereo broadcast with sufficient signal strength, "ST" lights up on the display.

When an FM stereo broadcast is hard to receive

Reception improves, but stereo effect will be lost.
• "MO" lights up on the display.

To restore the stereo effect, repeat the same procedure. "MONO OFF" appears and the MO indicator goes off.

FM station automatic presetting —SSM (Strong-station Sequential Memory)

You can preset up to six stations for each band.

1 While listening to an FM station...

2

[Hold]

Local FM stations with the strongest signals are searched and stored automatically in the selected FM band.

Manual presetting

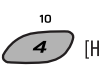
Ex.: Storing FM station of 92.50MHz into preset number 4 of the FM1 band.

1

FM1 → FM2 → FM3 → AM

2

3



[Hold]

Preset number flashes for a while.

To listen to a preset station

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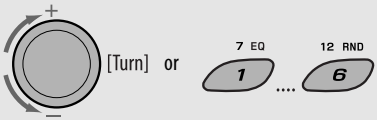
Searching for FM RDS programme — PTY Search

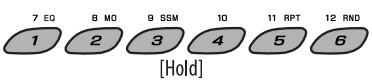
1		**Activate PTY Search.**
2		**Select one of the PTY codes (programme types).** See the following for details.
3		**Start searching.** If there is a station broadcasting a programme of the same PTY code as you have selected, that station is tuned in.

Storing your favorite programme types

You can store your favorite PTY codes into the number buttons.

1 Select a PTY code (see right column).

2 Select a preset number.



3 Repeat steps 1 and 2 for storing other PTY codes.

4

Preset PTY codes in the number buttons (1 to 6):

1	2	3	4	5	6
POP M	ROCK M	EASY M	CLASSICS	AFFAIRS	VARIED

PTY codes (available with the control dial):
NEWS, AFFAIRS, INFO, SPORT, EDUCATE, DRAMA, CULTURE, SCIENCE, VARIED, POP M (music), ROCK M (music), EASY M (music), LIGHT M (music), CLASSICS, OTHER M (music), WEATHER, FINANCE, CHILDREN, SOCIAL, RELIGION, PHONE IN, TRAVEL, LEISURE, JAZZ, COUNTRY, NATION M (music), OLDIES, FOLK M (music), DOCUMENT

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Activating/deactivating TA/PTY Standby Reception

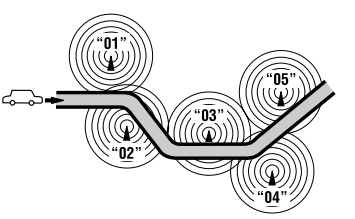
TA Standby Reception	Indicator	PTY Standby Reception	Indicator
Press [T/P] to activate.	TP	See page 25.	PTY
The unit temporarily will switch to Traffic Announcement (TA), if available, from any source other than AM. The volume changes to the preset TA volume level if the current level is lower than the preset level (see page 25).	Lights up	The unit temporarily will switch to your favorite PTY programme from any source other than AM.	Lights up
Not yet activated. Tune in to another station providing the RDS signals.	Flashes	Not yet activated. Tune in to another station providing the RDS signals.	Flashes
Press [T/P] to deactivate.	Goes off	Select "OFF" for the PTY code (see page 25) to deactivate.	Goes off

Tracing the same programme—Network-Tracking Reception

When driving in an area where FM reception is not sufficient enough, this unit automatically tunes in to another FM RDS station of the same network, possibly broadcasting the same programme with stronger signals (see the illustration on the right).

When shipped from the factory, Network-Tracking Reception is activated.
To change the Network-Tracking Reception setting, see "AF-REG" on page 25.

Programme A broadcasting on different frequency areas (01 – 05)



Automatic station selection—Programme Search

Usually when you press the number buttons, the preset station is tuned in.
If the signals from the FM RDS preset station are not sufficient for good reception, this unit, using the AF data, tunes in to another frequency broadcasting the same programme as the original preset station is broadcasting.

- The unit takes some time to tune in to another station using programme search.
- See also page 25.

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Disc operations

Before performing any operations...

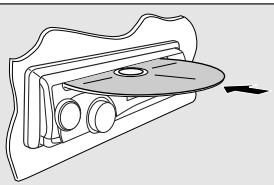
Turn on the monitor to watch the playback picture. If you turn on the monitor, you can also control playback of other discs by referring to the monitor screen. (See pages 18 – 21.)

The disc type is automatically detected, and playback starts automatically (for DVD: automatic start depends on its internal program).

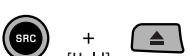
If the current disc does not have any disc menu, all tracks will be played repeatedly until you change the source or eject the disc.

If "⃠" appears on the monitor when pressing a button, the unit cannot accept the operation you have tried to do.

- In some cases, without showing "⃠," operations will not be accepted.

1		**Insert the disc.** Playback starts automatically.
2		**Start playback if necessary.**

Prohibiting disc ejection



To cancel the prohibition, repeat the same procedure.

To stop play and eject the disc

- Press SRC to listen to another playback source.

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	Change the display information.
	Current chapter number and Elapsed playing time → Current chapter number and Clock → Current title and chapter number → (back to the beginning)
	Current chapter number and Elapsed playing time → Current chapter number and Clock → Current program (or playlist) number and chapter number → (back to the beginning)
	Elapsed playing time → Folder number and Clock → Folder name → Track title → (back to the beginning)
	Current track number and Elapsed playing time → Current track number and Clock → (back to the beginning)
	Current track number and Elapsed playing time → Current track number and Clock → Album name/ performer (folder name*1) → Track title (file name*1) → (back to the beginning)
	Current track number and Elapsed playing time → Current track number and Clock → Disc title/ performer*2 → Track title*2 → (back to the beginning)

Operations using the control panel

Pressing (or holding) the following buttons allows you to...

Disc type			(Number buttons)*5
	[Press] Select chapter [Hold] Reverse/fast-forward chapter*3	Select title	During stop: Locate title During play/pause: Locate chapter
	[Press] Select chapter [Hold] Reverse/fast-forward chapter*3	Select program number/ playlist number	During stop: Locate program During play/pause: Locate chapter
	[Press] Select track [Hold] Reverse/fast-forward track*4	Select folder	Locate particular folder directly
	[Press] Select track [Hold] Reverse/fast-forward track*3	—	Locate particular track directly (PBC not in use)
	[Press] Select track [Hold] Reverse/fast-forward track*3	Select folder	Locate particular folder directly
	[Press] Select track [Hold] Reverse/fast-forward track*3	—	Locate particular track directly

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After pressing M MODE, press the following buttons to...

Disc type		11 RPT 5	12 RND 6
DVD Video	Skip 10 chapters (during play or pause)	**CHAPTER RPT**: Repeat current chapter **TITLE RPT**: Repeat current title	—
DVD VR	Skip 10 chapters (during play or pause)	**CHAPTER RPT**: Repeat current chapter **PROGRAM RPT**: Repeat current program (not available for Playlist Playback)	—
DivX/ MPEG	Skip 10 tracks (within the same folder)	**TRACK RPT**: Repeat current track **FOLDER RPT**: Repeat current folder	**FOLDER RND**: Randomly play all tracks of current folder, then tracks of next folders **ALL RND**: Randomly play all tracks
VCD	Skip 10 tracks (PBC not in use)	**TRACK RPT**: Repeat current track (PBC not in use)	**ALL RND**: Randomly play all tracks (PBC not in use)
MP3/ WMA/WAV	Skip 10 tracks (within the same folder)	**TRACK RPT**: Repeat current track **FOLDER RPT**: Repeat current folder	**FOLDER RND**: Randomly play all tracks of current folder, then tracks of next folders **ALL RND**: Randomly play all tracks
CD	Skip 10 tracks	**TRACK RPT**: Repeat current track	**ALL RND**: Randomly play all tracks

- To cancel repeat play or random play, select "**RPT OFF**" or "**RND OFF**."

*1 *If the file does not have Tag information or "TAG DISPLAY" is set to "TAG OFF" (see page 25), folder name and file name appear. TAG indicator will not light up.*

*2 *"NO NAME" appears for an audio CD.*

*3 *Search speed: ×**2** ⇨ ×**10***

*4 *Search speed: ▸▸ 1 ⇨ ▸▸ 2*

*5 *Press to select number 1 to 6; hold to select number 7 to 12.*

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Operations using the remote controller (RM-RK252)

Button \ Disc	DVD Video / DVD VR	DivX/MPEG
	Stop play	Stop play
	Start play/Pause (if pressed during play)	Start play/Pause (if pressed during play)
	• Reverse/forward chapter search*1 (No sound can be heard.) • Slow motion*2 during pause (No sound can be heard.) * *DVD-VR: Reverse slow motion does not work.*	Reverse/forward track search*4 (No sound can be heard.)
	[Press] Select chapter (during play or pause) [Hold] Reverse/fast-forward chapter search*3	[Press] Select track [Hold] Reverse/fast-forward track search*5 (No sound can be heard.)
	• DVD-Video: Select title (during play or pause) • DVD-VR: Select program Select playlist (during play or pause)	Select folder
	—	• Skip back or forward the scenes by about five minutes • Select chapter

To search for chapter/title/program/playlist/folder/track directly (DVD/DivX/MPEG Video/MP3/WMA/WAV/CD)

1 While holding SHIFT, press DIRECT repeatedly to select the desired search mode.

DVD-Video : CHAP ➡ — → TITLE ➡ -- → Canceled

DVD-VR : CHAP ➡ -- → PG/PL ➡ -- → Canceled

DivX/MPEG Video : TRACK ➡ --- → FOLDER ➡ --- → Canceled

MP3/WMA/WAV : Track Search --- → Folder Search --- → Canceled

2 While holding SHIFT, press the number buttons (0 – 9) to enter the desired number.

3 Press ENT (enter) to confirm.

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VCD	MP3/ WMA/WAV	CD
Stop play	Stop play	Stop play
Start play/Pause (if pressed during play)	Start play/Pause (if pressed during play)	Start play/Pause (if pressed during play)
Reverse/forward track search*1 • Forward slow motion*2 during pause. (No sound can be heard.) * *Reverse slow motion does not work.*	Reverse/forward track search*1	Reverse/forward track search*1
[Press] Select track [Hold] Reverse/fast-forward track search*3 (No sound can be heard.)	[Press] Select track [Hold] Reverse/fast-forward track search*3	[Press] Select track [Hold] Reverse/fast-forward track search*3
—	Select folder	—
—	—	—

- For DivX/MPEG Video/MP3/WMA/WAV, track is searched within the same folder.
- For DVD-VR, program/playlist search is possible during Original program playback (PG)/Playlist playback (PL).
- To erase a misentry, press CLR (clear) while holding SHIFT.
- To return to the previous screen, press RETURN.

*1 *Search speed:* ×2 ⇨ ×5 ⇨ ×10 ⇨ ×20 ⇨ ×60
*2 *Slow motion speed:* 1/32 ⇨ 1/16 ⇨ 1/8 ⇨ 1/4 ⇨ 1/2
*3 *Search speed:* ×2 ⇨ ×10
*4 *Search speed:* 1 ⇨ 2 ⇨ 3
*5 *Search speed:* 1 ⇨ 2

Continued on the next page

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Using menu driven features... (DVD-Video/ DVD-VR)

1 Press TOP M/MENU to enter the menu screen.
2 Press △/▽/◁/▷ to select an item you want to start play.
3 Press ENT (enter) to confirm.

Canceling the PBC playback... (VCD)

1 During stop, press DIRECT while holding SHIFT.
2 Hold SHIFT, then press the number buttons (0 – 9) to enter the desired number.
3 Press ENT (enter) to confirm.

• To resume PBC, press TOP M/MENU.

Operations using the on-screen bar

(DVD/DVD-VR/DivX/MPEG Video/VCD)

These operations are possible on the monitor using the remote controller.

1 Show the on-screen bar (see page 19).

OSD (twice)

2 Select an item.

◁ ▷ ENT

3 Make a selection.

If pop-up menu appears...

△ ▽ ENT

- To cancel pop-up menu, press RETURN.
- For entering time/numbers, see the following.

Entering time/numbers

Press △/▽ to change the number, then press ◁/▷ to move to the next entry.

- Each time you press △/▽, the number increases/ decreases by one value.
- After entering the numbers, press ENT (enter).
- It is not required to enter the zero and tailing zeros (the last two digits in the example below).

Ex.: Time search
DVD: _:_ _:_ _ (Ex.: 1:02:00)
Press △ once, then ▷ twice to go to the third entry, △ twice, then press ENT (enter).

To remove the on-screen bar

OSD

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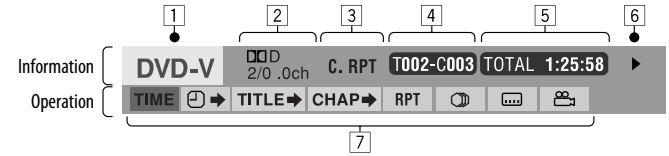
On-screen bar

Ex.: DVD-Video



1 Disc type

2
- DVD-Video/DTS-CD: Audio signal format type and channel
- VCD:PBC

3 Playback mode*1

DVD-Video:	**T. RPT**:	Title repeat
	C. RPT:	Chapter repeat
DVD-VR:	**C. RPT**:	Chapter repeat
	PG. RPT:	Program repeat
DivX/MPEG Video:	**T. RPT**:	Track repeat
	F. RPT:	Folder repeat
	A. RND:	All random
	F. RND:	Folder random
VCD*2:	**T. RPT**:	Track repeat
	A. RND:	All random

4 Playback information

T002-C003	Current title/chapter
PG001 C002	Current program/chapter
PL001 C002	Current playlist/chapter
TRACK 01	Current track
F001-T001	Current folder/track

5 Time indication

TOTAL	Elapsed playing time of the disc (For DVD-Video, elapsed playing time of the current title/program/playlist.)
T. REM	DVD-Video/DVD/VR: Remaining title/program/playlist time VCD: Remaining disc time
TIME	Elapsed playing time of the current chapter/track*3
REM	Remaining time of the current chapter/track*3

6 Playback status

▶	Play
▶▶ / ◀◀	Forward/reverse search
▮▶ / ◀▮	Forward/reverse slow-motion
▮▮	Pause
■	Stop

7 Operation icons

TIME	Change time indication (see 5)
	Time Search (Enter the elapsed playing time of the current title/program/playlist or of the disc.)
TITLE	Title Search (by its number)
CHAP	Chapter Search (by its number)
TRACK	Track Search (by its number)
	Change the audio language or audio channel
	Change or turn off the subtitle language
	Change the view angle
RPT	Repeat play*1
RND	Random play*1

*1 *For repeat play/random play, see also page 15.*

*2 *While PBC is not in use.*

*3 *Not applicable for DVD-VR.*

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Operations using the control screen

(DivX/MPEG Video/MP3/WMA/WAV/CD)

These operations are possible on the monitor using the remote controller.

1 Show the control screen.

DivX/MPEG Video: Press ■ during play.
MP3/WMA/WAV/CD: Automatically appear during play.

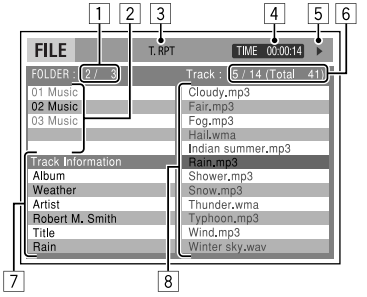
2 Select "Folder" column or "Track" column (except for CD).

3 Select a folder or track.

4 Start playback.

DivX/MPEG Video: Press ENT (enter) or ►/II.
MP3/WMA/WAV/CD: Playback starts automatically.

Control screen



Ex.: MP3/WMA/WAV disc

1 Current folder number/total folder number
2 Folder list with the current folder selected
3 Selected playback mode
4 Elapsed playing time of the current track
5 Operation mode icon (►, ■, II, ►►, ◄◄)
6 Current track number/total number of tracks in the current folder (total number of tracks on the disc)
7 Track information
8 Track list with the current track selected

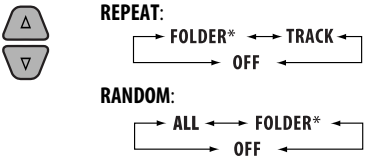
To select a playback mode

1 While control screen is displayed...

Playback mode selection screen appears on the folder list section of the control screen.

2 Select a playback mode.

3 Select an item.



Mode	Playback functions
F. RPT (folder repeat):	Repeat current folder
T. RPT (track repeat):	Repeat current track
A. RND (all random):	Randomly play all tracks
F. RND (folder random):	Randomly play all tracks of current folder, then tracks of next folders

4 Confirm the selection.

* *Not selectable for CD.*

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Operations using the list screen

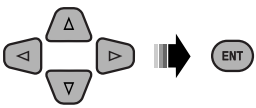
(DVD-VR/DivX/MPEG Video/MP3/WMA/WAV)

These operations are possible on the monitor using the remote controller.

Before playing, you can display the folder list/track list to confirm the contents and start playing a track.

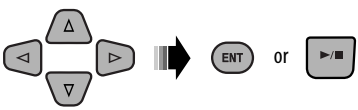
1 Display the folder list while stop.

2 Select an item from the folder list.



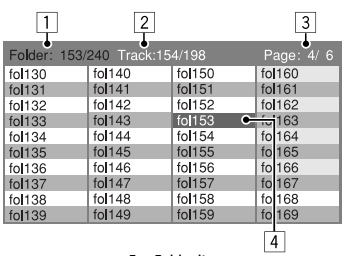
- Track list of the selected folder appears.
- To go back to the folder list, press RETURN.

3 Select a track to start playing.



- MP3/WMA/WAV: Control screen appears (see page 20).

List screen (DivX/MPEG Video/MP3/WMA/WAV)



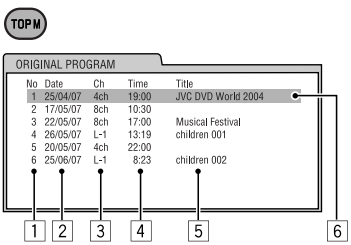
Ex.: Folder list

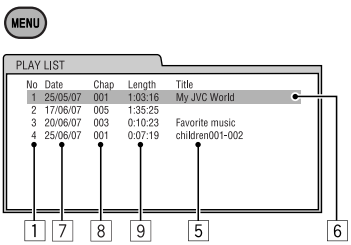
1 Current folder number/total folder number
2 Current track number/total number of tracks in the current folder
3 Current page/total number of the pages included in the list
4 Current folder/track (highlighted bar)

List screen (DVD-VR)

You can use ORIGINAL PROGRAM or PLAY LIST screen anytime while playing DVD-VR with its data recorded.

1 Select a list screen.


TOP M
ORIGINAL PROGRAM
No Date Ch Time Title
1 25/04/07 4ch 19:00 JVC DVD World 2004
2 17/05/07 8ch 10:30
3 22/05/07 8ch 17:00 Musical Festival
4 26/05/07 L-1 13:19 children 001
5 20/05/07 4ch 22:00
6 25/06/07 L-1 8:23 children 002
1 2 3 4 5 6



1 Program/playlist number
2 Recording date
3 Recording source (TV station, the input terminal of the recording equipment, etc.)
4 Start time of recording
5 Title of the program/playlist*
6 Current selection (highlighted bar)
7 Creating date of playlist
8 Number of chapters
9 Playback time

* *The title of the original program or playlist may not be displayed depending on the recording equipment.*

2 Select an item from the list.

ENGLISH

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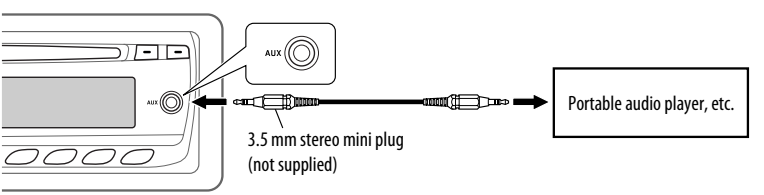
Listening to the other external components

You can connect an external component to:

- AUX (auxiliary) input jack on the control panel.
- LINE IN plugs on the rear.

1	SRC	**Select "AUX IN" or "LINE IN."**
2	—	**Turn on the connected component and start playing the source.**
3	+ [Turn] −	**Adjust the volume.**
4	—	**Adjust the sound as you want (see below and page 23).**

Connecting an external component to the AUX input jack



Selecting a preset sound mode

You can select a preset sound mode suitable to the music genre (c-EQ: custom equalizer).

1	MODE M	—
2	7 EQ 1 → USER → ROCK → CLASSIC → POPS ← HIP HOP ← JAZZ ←	**Select a preset sound mode suitable to the music genre (c-EQ: custom equalizer).**

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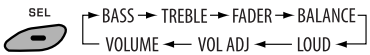
Preset value setting for each sound mode

Sound mode	Preset value		
	BAS (bass)	**TRE** (treble)	**LOUD** (loudness)
USER	00	00	OFF
ROCK	+03	+01	ON
CLASSIC	+01	–02	OFF
POP	+04	+01	OFF
HIP HOP	+02	00	ON
JAZZ	+02	+03	OFF

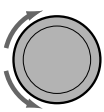
Adjusting the sound

You can adjust the sound characteristics to your preference.

1



2



BASS*1 Adjust the bass.	–06 to +06
TREBLE*1 Adjust the treble.	–06 to +06
FADER*2 Adjust the front and rear speaker output balance.	R06 to F06
BALANCE Adjust the left and right speaker output balance.	L06 to R06
LOUD*1 (loudness) Boost low and high frequencies to produce a well-balanced sound at low volume level.	LOUD ON or LOUD OFF
VOL ADJ*3 (volume adjust) Adjust and store auto-adjustment volume level for each source, comparing to the FM volume level.	–05 to +05; initial: 00
VOLUME Adjust the volume.	00 to 50 or 00 to 30*4

*1 *When you adjust the bass, treble, or loudness, the adjustment you have made is stored for the currently selected sound mode (c-EQ) including "USER."*

*2 *If you are using a two-speaker system, set the fader level to "00."*

*3 *You cannot make an adjustment for FM. "FIX" appears.*

*4 *Depending on the amplifier gain control setting. (See page 25 for details.)*

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General settings — PSM

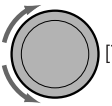
You can change PSM (Preferred Setting Mode) items listed in the table below and on page 25.

1 Enter the PSM settings.

[Hold]

2 Select a PSM item.

3 Select or adjust the selected PSM item.



[Turn]

4 Repeat steps 2 and 3 to adjust other PSM items if necessary.

5 Finish the procedure.

Indications	Item (__ : Initial)	Setting, [reference page]
DEMO Display demonstration	• **DEMO ON**	: The display demonstration will be activated automatically if no operation is done for about 20 seconds, [5].
	• **DEMO OFF**	: Cancels.
CLOCK DISP*1 Clock display	• **CLOCK ON**	: The clock time is shown on the display at all times when the power is turned off.
	• **CLOCK OFF**	: Cancels; pressing DISP will show the clock time for about 5 seconds when the power is turned off, [5].
CLOCK HOUR Hour adjustment	**0 – 23 (1-12)**	[Initial: 0 (0:00)], [5].
CLOCK MIN Minute adjustment	**00 – 59**	[Initial: 00 (0:00)], [5].
24H/12H Time display mode	• **24 HOUR**	: See also page 5 for setting.
	• **12 HOUR**	
CLOCK ADJ *2 Clock adjustment	• **AUTO**	: The built-in clock is automatically adjusted using the CT (clock time) data in the RDS signal.
	• **OFF**	: Cancels.

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Indications	Item (__: Initial)	Setting, [reference page]
AF-REG *2 Alternative frequency/ regionalization reception	• **AF**	: When the currently received signals become weak, the unit switches to another station or service (the programme may differ from the one currently received), [12].
	• **AF REG**	: When the currently received signals become weak, the unit switches to another station broadcasting the same programme.
	• **OFF**	: Cancels.
PTY-STANDBY PTY standby	**OFF**, PTY codes (see page 11)	: Activates PTY Standby Reception with one of the PTY codes, [11, 12].
TA VOLUME Traffic announcement volume	**VOLUME 00 – VOLUME 50** (or **VOLUME 00 – VOLUME 30**) *3	[Initial: VOLUME 15], [12].
P-SEARCH *2 Programme search	• **ON**	: Activates Programme Search, [12].
	• **OFF**	: Cancels.
DIMMER Dimmer	• **ON**	: Dims the display and button illumination.
	• **OFF**	: Cancels.
TEL MUTING Telephone muting	• **MUTING 1/ MUTING 2**	: Select either one which mutes the sounds while using a cellular phone.
	• **MUTING OFF**	: Cancels.
SCROLL *4 Scroll	• **ONCE**	: Scrolls the displayed information once.
	• **AUTO**	: Repeats scrolling (at 5-second intervals).
	• **OFF**	: Cancels.
		• Pressing DISP for more than one second can scroll the display regardless of the setting.
TAG DISPLAY Tag display	• **TAG ON**	: Shows the Tag information while playing MP3/WMA/WAV tracks.
	• **TAG OFF**	: Cancels.
AMP GAIN Amplifier gain control	• **LOW POWER**	: VOLUME 00 – VOLUME 30. (Select this if the maximum power of the speaker is less than 50 W to avoid damaging the speaker.)
	• **HIGH POWER**	: VOLUME 00 – VOLUME 50.
IF BAND Intermediate frequency band	• **AUTO**	: Increases the tuner selectivity to reduce interference noises between adjacent stations. (Stereo effect may be lost.)
	• **WIDE**	: Subject to interference noises from adjacent stations, but sound quality will not be degraded and the stereo effect will remain.

*1 *If the power supply is not interrupted by turning off the ignition key of your car, it is recommended to select "CLOCK OFF" to save the car's battery.*

*2 *Only for RDS FM stations.*

*3 *Depending on the "AMP GAIN" setting.*

*4 *Some characters or symbols will not be shown correctly (or will be blanked) on the display.*

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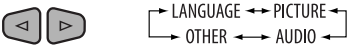
Disc setup menu

These operations are possible on the monitor using the remote controller.

1 Enter the disc setup menu while stop.

2 Select a menu.

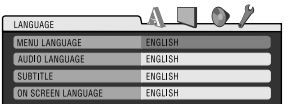


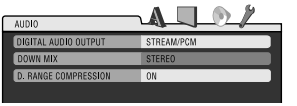
3 Select an item you want to set up.

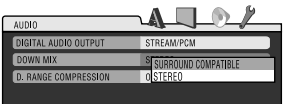
- To cancel pop-up menu, press RETURN.

4 Select an option.

To return to normal screen







Menu	Item	Setting
LANGUAGE	MENU LANGUAGE	Select the initial disc menu language. Refer also to “Language codes” on page 32.
	AUDIO LANGUAGE	Select the initial audio language. Refer also to “Language codes” on page 32.
	SUBTITLE	Select the initial subtitle language or remove the subtitle (OFF). Refer also to “Language codes” on page 32.
	ON SCREEN LANGUAGE	Select the language for the on screen display.

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Menu	Item	Setting
PICTURE	MONITOR TYPE	Select the monitor type to watch a wide screen picture on your monitor. 16:9 4:3 LETTERBOX 4:3 PAN SCAN
	OSD POSITION	Select the on-screen bar position on the monitor. • **1** : Higher position • **2** : Lower position (Guidance below the disc setup menu will disappear.)
AUDIO	DIGITAL AUDIO OUTPUT	Select the signal format to be emitted through the DIGITAL OUT (Optical) terminal. • **OFF** : Cancels. • **PCM ONLY** : Select for an amplifier or a decoder incompatible with Dolby Digital, DTS, MPEG Audio, or when connecting to a recording device. • **DOLBY DIGITAL/PCM** : Select for an amplifier or a decoder compatible with Dolby Digital. • **STREAM/PCM** : Select for an amplifier or a decoder compatible with Dolby Digital, DTS, and MPEG Audio.
	DOWN MIX	When playing back a multi-channel disc, this setting affects the signals reproduced through the LINE OUT jacks (and through the DIGITAL OUT terminal when "PCM ONLY" is selected for "DIGITAL AUDIO OUTPUT"). • **SURROUND COMPATIBLE** : Select to enjoy multi-channel surround audio by connecting an amplifier compatible with Dolby Surround. • **STEREO** : Normally select this.
	D. RANGE COMPRESSION	You can enjoy a powerful sound at low or middle volume levels while playing a Dolby Digital software. • **AUTO** : Select to apply the effect to multi-channel encoded software (excluding 1-channel and 2-channel software). • **ON** : Select to always use this function.
OTHER	DivX REGISTRATION	This unit has its own Registration Code. Once you have played back a disc in which the Registration Code recorded, this unit's Registration Code is overwritten for copyright protection.
	FILE TYPE (DISC)	Select playback file type when a disc contains different types of files. • **AUDIO** : Play MP3/WMA/WAV files. • **VIDEO** : Play DivX/MPEG Video files. • **AUDIO + VIDEO** : Play MP3/WMA/WAV/DivX/MPEG Video files.

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More about this unit

General

Turning on the power

- By pressing SRC on the unit, you can also turn on the power. If the source is ready, playback starts.

Turning off the power

- If you turn off the power while listening to a disc, disc play will start automatically, next time you turn on the power.

FM/AM

Storing stations in memory

- During SSM search...
  - Received stations are preset in No. 1 (lowest frequency) to No. 6 (highest frequency).
  - When SSM is over, the station stored in No. 1 will be automatically tuned in.
- When storing stations, the previously preset stations are erased and stations are stored newly.

Disc

General

- In this manual, words "track" and "file" are interchangeably used.
- This unit can only play back audio CD (CD-DA) files if different type of files are recorded in the same disc.

Inserting a disc

- When a disc is inserted upside down, "PLEASE" and "EJECT" appear alternately on the display. Press ⏏ to eject the disc.

Ejecting a disc

- If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust. Playback starts automatically.
- After ejecting a disc, "NO DISC" appears and you cannot operate some of the buttons. Insert another disc or press SRC to select another playback source.

Playing Recordable/Rewritable discs

- This unit can recognize a total of 5 000 files and 250 folders (a maximum of 999 files per folder).
- This unit can recognize a total 25 characters for file/folder names.
- Use only "finalized" discs.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- This unit may be unable to play back some discs or files due to their characteristics or recording conditions.
- Rewritable discs may require a longer readout time.

Playing DVD-VR files

- For details about DVD-VR format and playlist, refer to the instructions supplied with the recording equipment.

Playing MP3/WMA/WAV files

- The maximum number of characters for folder and file names is 25 characters; 128 characters for MP3/WAV and 64 characters for WMA tag information.
- This unit can play back files with the extension code <.mp3>, <.wma>, or <.wav> (regardless of the letter case—upper/lower).

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- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for the MP3/WMA/WAV files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back files recorded in VBR (variable bit rate).
  Files recorded in VBR have a discrepancy in elapsed time indication.
- This unit cannot play back the following files:
  – MP3 files encoded with MP3i and MP3 PRO format.
  – MP3 files encoded with Layer 1/2.
  – WMA files encoded with lossless, professional, and voice format.
  – WMA files which are not based upon Windows Media® Audio.
  – WMA files copy-protected with DRM.
  – Files which have the data such as ATRAC3, etc.
  – AAC files and OGG files.

Playing DivX files

- This unit can play back DivX files with the extension code <.divx>, <.div>, <.avi> (regardless of the letter case—upper/lower).
- This unit supports DivX Media Format files, <.divx> or <.avi>.
- This unit can display a unique registration code—DivX Video-on-Demand (VOD—a kind of Digital Rights Management). For activation and more details, visit <www.divx.com/vod>.
- Audio stream should conform to MP3 or Dolby Digital.
- This unit does not support GMC (Global Motion Compression).
- The file encoded in the interlaced scanning mode may not be played back correctly.
- This unit cannot play back the following files:
  – Files encoded in Codec (Compressor-decompressor) other than DivX Codec.
- If you want to know more about DivX, visit <http://www.divx.com>.

Playing MPEG Video files

- This unit can play back MPEG Video files with the extension code <.mpg>, <.mpeg>, or <.mod>*.

* *<.mod> is an extension code used for the MPEG-2 files recorded by JVC Everio camcorders.*

- Audio stream should conform to MPEG1 Audio Layer 2.
- This unit cannot playback the following files:
  – WMV (Windows Media Video) files
  – RM (Real Media) format files

Changing the source

- If you change the source, playback also stops (without ejecting the disc).
  Next time you select "DISC" for the playback source, disc play starts from where it has been stopped previously.

General settings—PSM

- If you change the "AMP GAIN" setting from "HIGH POWER" to "LOW POWER" while the volume level is set higher than "VOLUME 30," the unit automatically changes the volume level to "VOLUME 30."

Disc setup menu

- When the language you have selected is not recorded on a disc, the original language is automatically used as the initial language. In addition, for some discs, the initial languages settings will not work as you set due to their internal disc programming.
- When you select "16:9" for a picture whose aspect ratio is 4:3, the picture slightly changes due to the process for converting the picture width.
- Even if "4:3 PAN SCAN" is selected, the screen size may become "4:3 LETTERBOX" for some discs.

Continued on the next page

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About sounds reproduced through the rear terminals

- **Through the analog terminals (Speaker out/LINE OUT):**
  2-channel signal is emitted. When playing a multi-channel encoded disc, multi-channel signals are downmixed. DTS sound cannot be reproduced. (AUDIO—DOWN MIX: see page 27.)
- **Through DIGITAL OUT (optical):**
  Digital signals (Linear PCM, Dolby Digital, DTS, MPEG Audio) are emitted through this terminal. (For more details, see table on page 31.)
  To reproduce multi-channel sounds such as Dolby Digital, DTS, and MPEG Audio, connect an amplifier or a decoder compatible with these multi-channel sources to this terminal, and set "DIGITAL AUDIO OUTPUT" correctly. (See page 27.)

On-screen guide icons

During playback, the following guide icons may appear for a while on the monitor.

: Playback
: Pause
: DVD-Video/VCD: Forward slow motion
: DVD-Video: Reverse slow motion
: Forward search
: Reverse search

DVD: The following icons appear at the beginning of a scene containing:

: Multi-subtitle languages
: Multi-audio languages
: Multi-angle views

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Output signals through the DIGITAL OUT terminal

Output signals are different depending on the "DIGITAL AUDIO OUTPUT" setting on the setup menu (see page 27).

Playback Disc		Output Signal			
		STREAM/PCM	DOLBY DIGITAL/ PCM	PCM ONLY	OFF
DVD-Video	48 kHz, 16/20/24 bits Linear PCM	48 kHz, 16 bits stereo Linear PCM *			OFF
	96 kHz, Linear PCM	48 kHz, 16 bits stereo Linear PCM			
	Dolby Digital	Dolby Digital bitstream		48 kHz, 16 bits stereo Linear PCM	
	DTS	DTS bitstream			
	MPEG Audio	MPEG bitstream	48 kHz, 16 bits stereo Linear PCM		
Audio CD, Video CD		44.1 kHz, 16 bits stereo Linear PCM / 48 kHz, 16 bits stereo Linear PCM			
Audio CD with DTS		DTS bitstream			
DivX	Dolby Digital	Dolby Digital bitstream		48 kHz, 16 bits stereo Linear PCM	
	MPEG Audio	32/44.1/48 kHz, 16 bits Linear PCM			
MPEG		44.1/48 kHz, 16 bits Linear PCM			
MP3/WMA		32/44.1/48 kHz, 16 bits Linear PCM			
WAV		44.1 kHz, 16 bits stereo Linear PCM			

* *Digital signals may be emitted at 20 or 24 bits (at their original bit rate) through the DIGITAL OUT terminal if the discs are not copy-protected.*

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Language codes

Code	Language	Code	Language	Code	Language	Code	Language	Code	Language
AA	Afar	FA	Persian	KK	Kazakh	NO	Norwegian	ST	Sesotho
AB	Abkhazian	FI	Finnish	KL	Greenlandic	OC	Occitan	SU	Sundanese
AF	Afrikaans	FJ	Fiji	KM	Cambodian	OM	(Afan) Oromo	SW	Swahili
AM	Ameharic	FO	Faroese	KN	Kannada	OR	Oriya	TA	Tamil
AR	Arabic	FY	Frisian	KO	Korean (KOR)	PA	Panjabi	TE	Telugu
AS	Assamese	GA	Irish	KS	Kashmiri	PL	Polish	TG	Tajik
AY	Aymara	GD	Scots Gaelic	KU	Kurdish	PS	Pashto, Pushto	TH	Thai
AZ	Azerbaijani	GL	Galician	KY	Kirghiz	QU	Quechua	TI	Tigrinya
BA	Bashkir	GN	Guarani	LA	Latin	RM	Rhaeto-Romance	TK	Turkmen
BE	Byelorussian	GU	Gujarati	LN	Lingala	RN	Kirundi	TL	Tagalog
BG	Bulgarian	HA	Hausa	LO	Laothian	RO	Rumanian	TN	Setswana
BH	Bihari	HI	Hindi	LT	Lithuanian	RW	Kinyarwanda	TO	Tonga
BI	Bislama	HR	Croatian	LV	Latvian, Lettish	SA	Sanskrit	TR	Turkish
BN	Bengali, Bangla	HU	Hungarian	MG	Malagasy	SD	Sindhi	TS	Tsonga
BO	Tibetan	HY	Armenian	MI	Maori	SG	Sangho	TT	Tatar
BR	Breton	IA	Interlingua	MK	Macedonian	SH	Serbo-Croatian	TW	Twi
CA	Catalan	IE	Interlingue	ML	Malayalam	SI	Singhalese	UK	Ukrainian
CO	Corsican	IK	Inupiak	MN	Mongolian	SK	Slovak	UR	Urdu
CS	Czech	IN	Indonesian	MO	Moldavian	SL	Slovenian	UZ	Uzbek
CY	Welsh	IS	Icelandic	MR	Marathi	SM	Samoan	VI	Vietnamese
DZ	Bhutani	IW	Hebrew	MS	Malay (MAY)	SN	Shona	VO	Volapuk
EL	Greek	JA	Japanese	MT	Maltese	SO	Somali	WO	Wolof
EO	Esperanto	JI	Yiddish	MY	Burmese	SQ	Albanian	XH	Xhosa
ET	Estonian	JW	Javanese	NA	Nauru	SR	Serbian	YO	Yoruba
EU	Basque	KA	Georgian	NE	Nepali	SS	Siswati	ZU	Zulu

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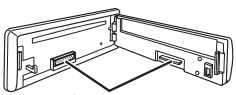
Maintenance

How to clean the connectors

Frequent detachment will deteriorate the connectors. To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connector

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

Center holder

- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc into its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs into the cases after use.

To keep discs clean

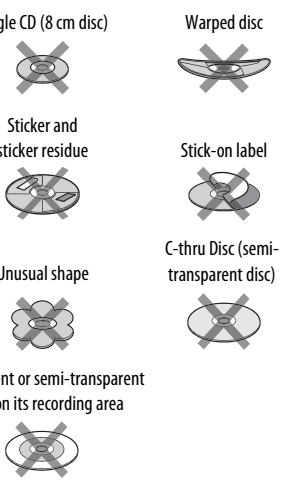
A dirty disc may not play correctly.
If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.

- Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.
To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:



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Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptom	Remedy/Cause
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level. • Check the cords and connections.
	• The unit does not work at all.	Reset the unit (see page 3).
FM/AM	• SSM automatic presetting does not work.	Store stations manually.
	• Static noise while listening to the radio.	Connect the aerial firmly.
Discs in general	• Disc cannot be played back.	Insert the disc correctly.
	• Disc can be neither played back nor ejected.	• Unlock the disc (see page 13). • Eject the disc forcibly (see page 3).
	• Recordable/Rewritable discs cannot be played back. • Tracks on the Recordable/Rewritable discs cannot be skipped.	• Insert a finalized disc. • Finalize the discs with the component which you have used for recording.
	• Disc cannot be recognized.	Eject the disc forcibly (see page 3).
	• Sound and pictures are sometimes interrupted or distorted.	• Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	• No playback picture (DVD-Video/DivX/MPEG/VCD) appears on the monitor.	Parking brake wire is not connected properly. (See Installation/Connection Manual.)
	• No picture appears on the monitor at all.	• Connect the video cord correctly. • Select a correct input on the monitor.
	• The left and right edges of the picture are missing on the monitor.	Select “4:3 LETTERBOX” (see page 27).

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	Symptom	Remedy/Cause
DivX/MPEG Video/MP3/WMA/WAV	• Disc cannot be played back.	• Change the disc. • Record the tracks using a compliant application in the appropriate discs (see page 4). • Add the extension code <.divx>, <.div>, <.avi>, <.mpg>, <.mpeg>, <.mp3>, <.wma>, or <.wav> to the file names.
	• Noise is generated.	Skip to another track or change the disc.
	• Tracks cannot play back as you have intended them to play.	Playback order is determined when files are recorded.
	• Longer readout time is required.	Readout time varies due to the complexity of the folder/file configuration. Do not use too many hierarchies and folders.
	• No sound can be heard when picture is displayed while playing a DivX/MPEG Video file.	• Record the audio track using MP3 or Dolby Digital as the audio stream of DivX files. • Record the audio track using MPEG1 Audio Layer 2 as the audio stream for MPEG Video files.
	• Elapsed playing time is not correct.	This sometimes occurs during playback. This is caused by how the tracks are recorded.
	• "PLEASE" and "EJECT" appear alternately on the display.	Insert a disc that contains tracks of appropriate formats.
	• Correct characters are not displayed (e.g. album name).	This unit can only display letters (upper case), numbers, and a limited number of symbols.

- Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.
- "DTS" and "DTS Digital Out" are registered trademarks of DTS, Inc.
- "DVD Logo" is a trademark of DVD Format/Logo Licensing Corporation registered in the US, Japan and other countries.
- DivX, DivX Ultra Certified, and associated logos are trademarks of DivX, Inc. and are used under license.
- Official DivX® Ultra Certified product
- Plays all versions of DivX® video (including DivX® 6) with enhanced playback of DivX® media files and the DivX® Media Format
- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

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Specifications

AUDIO AMPLIFIER SECTION	Maximum Power Output:	Front/Rear:	50 W per channel
	Continuous Power Output (RMS):	Front/Rear:	19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion
	Load Impedance:		4 Ω (4 Ω to 8 Ω allowance)
	Tone Control Range:	Bass:	±12 dB at 100 Hz
		Treble:	±12 dB at 10 kHz
	Signal to Noise Ratio:		70 dB
	Audio Output Level:	Digital (DIGITAL OUT: Optical):	Signal wave length: 660 nm
			Output level: –21 dBm to –15 dBm
		Line-Out Level/Impedance:	2.5 V/20 kΩ load (full scale)
		Output Impedance:	1 kΩ
	Color system:		PAL
	Video Output (composite):		1 Vp-p/75 Ω
	Other Terminal:	AUX (auxiliary) input jack, LINE IN plugs	

TUNER SECTION	Frequency Range:	FM:	87.5 MHz to 108.0 MHz
		AM:	(MW) 522 kHz to 1 620 kHz (LW) 144 kHz to 279 kHz
	FM Tuner:	Usable Sensitivity:	11.3 dBf (1.0 µV/75 Ω)
		50 dB Quieting Sensitivity:	16.3 dBf (1.8 µV/75 Ω)
		Alternate Channel Selectivity (400 kHz):	65 dB
		Frequency Response:	40 Hz to 15 000 Hz
		Stereo Separation:	30 dB
	AM Tuner:	Sensitivity:	20 µV
		Selectivity:	35 dB

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DVD/CD PLAYER SECTION	Signal Detection System:		Non-contact optical pickup (semiconductor laser)	
	Number of Channels:			2 channels (stereo)
	Frequency Response:		DVD, fs=48 kHz/96 kHz:	16 Hz to 22 000 Hz
			CD, fs=44.1 kHz:	16 Hz to 20 000 Hz
	Dynamic Range:			96 dB
	Signal-to-Noise Ratio:			98 dB
	Wow and Flutter:			Less than measurable limit
	DivX/MPEG Video:	Video:	Max. Resolution:	720 × 480 pixels (30 fps) 720 × 576 pixels (25 fps)
		Audio:	Bit Rate:	DivX: 32 kbps – 320 kbps MPEG Video: 32 kbps – 320 kbps
			Sampling Frequency: DivX:	MPEG-1: 32 kHz, 44.1 kHz, 48 kHz MPEG-2: 16 kHz, 22.05 kHz, 24 kHz
			Sampling Frequency: MPEG Video:	32 kHz, 44.1 kHz, 48 kHz
	MP3:		Bit Rate:	32 kbps – 320 kbps
			Sampling Frequency:	MPEG-1: 32 kHz, 44.1 kHz, 48 kHz MPEG-2: 16 kHz, 22.05 kHz, 24 kHz
	WMA:		Bit Rate:	32 kbps – 320 kbps
			Sampling Frequency:	22.05 kHz, 32 kHz, 44.1 kHz, 48 kHz
	WAV:		Quantization Bit Rate:	16 bit
			Sampling Frequency:	44.1 kHz

GENERAL	Power Requirement:	Operating Voltage:	DC 14.4 V (11 V to 16 V allowance)
	Grounding System:		Negative ground
	Allowable Operating Temperature:		0°C to +40°C
	Dimensions (W × H × D):	Installation Size (approx.):	182 mm × 52 mm × 159 mm
		Panel Size (approx.):	188 mm × 58 mm × 13 mm
	Mass (approx.):		1.4 kg (excluding accessories)

Design and specifications are subject to change without notice.

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Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

Dear Customer,
This apparatus is in conformance with the valid European directives and standards regarding electromagnetic compatibility and electrical safety.

European representative of Victor Company of Japan, Limited is:
JVC Technology Centre Europe GmbH
Postfach 10 05 52
61145 Friedberg
Germany

JVC

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